Lipid droplet coat proteins, skeletal muscle lipid metabolism & insulin sensitivity

Stellingen

behorend bij het proefschrift:

Lipid droplet coat proteins, skeletal muscle lipid metabolism & insulin sensitivity

1. Augmenting intramyocellular neutral lipid storage capacity protects against insulin resistance in conditions of increased lipid supply. *(this thesis)*

2. The lipid droplet coat protein perilipin 2 is essential for intramyocellular triacylglycerol storage. *(this thesis)*

3. Perilipin 5 overexpression mimics the effects of endurance exercise-training with respect to intramyocellular neutral lipid accumulation and improved fat-oxidative capacity. (*this thesis*)

4. Reduced incorporation of fatty acids into triacylglycerol is an inherent characteristic of the type 2 diabetic muscle cell *(this thesis)*

5. It is important to clarify the definition of metabolism as it becomes increasingly recognized as an underlying mechanism in a range of diseases. *(Lazar MA & Birnbaum MJ, Science 2012; 336:1651-1652)*

6. Interdisciplinary research combining whole genome association studies with high throughput experiments involving loss- and gain of function models to study functional implications will aid in identifying true gene clusters and gene-environment interactions associated with diabetes risk.

7. The whole story of the evolution of taste is really the evolution of loss of taste. *(Callaway E, Nature 2012; 486:S16-S17)*

8. Verdere bezuinigingen op de wetenschap zullen leiden tot minder vernieuwing en innovatie en een vergrijzing van de wetenschap.

9. Environmental approaches for disease prevention are more cost-effective than nonclinical person-directed and clinical interventions *(Based on Chokshi DA & Farley TA, N Engl J Med 2012; 367:295-297)*. Therefore, facilitating and stimulating physical activity and yearly national obesity awareness campaigns will improve global health and save health care costs.

10. Wetenschap is als het beoefenen van topsport: doorzettingsvermogen, het durven nemen van risico's en het juiste (coach)team om je heen zijn de sleutel tot succes.

11. Passion and enthusiasm make things possible, not easy. *(Paulo Coelho)*

Madeleen Bosma, 1 maart 2013